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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-15-05**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Development of pipeline park Mallasandra in Ward no.13
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-17
Sample ID No	:	2017-07-15-05 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/07/2017

Date: 19/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/07/2017	19/07/2017	150.22 X 151.34 X 149.25	22734	8.265	300.1	13.2	13.1
2	PCC	M15	12/07/2017	19/07/2017	152.32 X 149.34 X 150.45	22747	8.284	307.1	13.5	
3	PCC	M15	12/07/2017	19/07/2017	148.32 X 150.24 X 148.25	22284	8.231	283.0	12.7	

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No : TC-8548

Format No: CIVIL/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/08/2017

Lab ID	:	CP-2017-07-15-05
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Development of pipeline park Mallasandra in Ward no.13
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-17
Sample ID No	:	2017-07-15-05 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/07/2017	09/08/2017	150.72 X 149.44 X 150.25	22524	8.302	389.7	17.3	17.0
2	PCC	M15	12/07/2017	09/08/2017	148.32 X 151.34 X 150.54	22447	8.268	383.8	17.1	
3	PCC	M15	12/07/2017	09/08/2017	150.32 X 150.66 X 150.25	22647	8.242	378.2	16.7	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : CP-2017-07-03-04

Date: 06-07-17

Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Development of pipeline park Mallasandra in Ward no.13
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-04 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
		IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
		IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
		IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
		IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
		IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
		IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-07-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.25	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-03-04** **Date: 01-08-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Development of pipeline park Mallasandra in Ward no.13
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-04 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-07-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-07-03-04 Date: 06-07-17
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Development of pipeline park Mallasandra in Ward no.13
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-04 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1210	1210	8.1	91.9	90-100
3	20 mm	4966	6176	41.2	58.8	30-70
4	10 mm	5354	11530	76.9	23.1	10-35
5	4.75 mm	2808	14338	95.6	4.4	0-5
6	Pan	662	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-03-04**

Sample ID No : 2017-07-03-04 /02(a)

Date: 06-07-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.2	–

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ಲೆಫ್ಟಿಹ್ಯಾ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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